

Srebrenka Letina

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Postdoctoral Researcher
Institute for Analytical Sociology,
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EMPLOYMENT

Postdoctoral Researcher, Institute for Analytical Sociology, Linköping University, Norrköping, Sweden	2019/20
Postdoctoral Researcher (part-time) at the Research Centre for Educational and Network Studies (RECENS) at Hungarian Academy of Science, Budapest, Hungary	2017/19
PhD candidate at the Department of Network and Data Science, Central European University, Budapest Hungary	2016-
Researcher (2010/14) and Postdoctoral Researcher (2014/16) at the Institute for Social Research in Zagreb, Croatia	2010/16
Researcher at the National University Library, Zagreb, Croatia	2008/10
Researcher at the marketing research agency Growth from Knowledge (GfK), Zagreb, Croatia	2007/08
Visiting Positions:	
Visiting Postdoctoral Scholar, University of Melbourne, School of Psychological Sciences, Social networks laboratory, Melbourne, Australia. Supervised by Garry Robins.	2015 – 6 mos
Visiting Scholar, University of Amsterdam, Psychological methods, Amsterdam, the Netherlands. Supervised by Denny Borsboom.	2018 – 2 mos
Visiting Researcher, Complexity Science Hub, Vienna (several days of visit)	2019

EDUCATION

PhD candidate (Network Science), Department of Network and Data Science, Central European University, Budapest, Hungary. Dissertation [working title]: “On the Intersection of Network Science and Psychology”. Supervisor: Balazs Vedres (Oxford Internet Institute).	
PhD (Psychology), Department of Psychology, Faculty of Social Sciences and Humanities, University of Zagreb, Croatia. Dissertation: “The Analysis of the Collaboration Network of the Scientists in Three Fields of Social Sciences from 1992 to 2012”. Supervisor: Darja Maslic Sersic. Defended on: June, 11th, 2014.	2014
MA/BA (Psychology), Department of Psychology, Faculty of Social Sciences and Humanities, University of Zagreb. Thesis: “Family Study of Emotional Intelligence”.	2007

Supervisor: Denis Bratko.

RESEARCH AND TEACHING INTERESTS

- Social networks;
- Psychological networks; psychiatric comorbidity; mental health
- Interdisciplinary approaches in studying human behaviour: intersections of network science, data science, psychology, and analytical sociology;
- Big data and simulation studies in social sciences

PUBLICATIONS

Peer-Reviewed Publications:

Maya-Jariego, I., Letina, S., & Tinoco, E. G. (2019). Personal networks and psychological attributes: Exploring individual differences in personality and sense of community and their relationship to the structure of personal networks. *Network Science*, 1-21.

Letina, S., Blanken, T. F., Deserno, M. K., & Borsboom, D. (2019). Expanding network analysis tools in psychological networks: Minimal spanning trees, participation coefficients, and motif analysis applied to a network of 26 psychological attributes. *Complexity*, 2019.

Letina, S., Robins, G., & Maslić Seršić, D. (2016). Reaching out from a small scientific community: the social influence models of collaboration across national and disciplinary boundaries for scientists in three fields of social sciences. *Revija za sociologiju*, 46(2), 103-139.

Letina, S. (2016). Network and actor attribute effects on the performance of researchers in two fields of social science in a small peripheral community. *Journal of Informetrics*, 10(2), 571-595.

Letina, S., Zauder, K., & Jokić, M. (2012). The productivity of Croatian psychologists: A scientometric analysis of network cooperation on works indexed in the WoS database from 1991 to 2010. *Suvremena psihologija*, 15(1), 97-116.

M. Jokić; K. Zauder; S. Letina. Croatian scholarly productivity 1991–2005 measured by journals indexed in Web of Science. *Scientometrics*. 2010, 83 (2), 375-395.

Other Academic Publications:

Non-peer reviewed papers:

Lewis, J. L., Letina, S. L., & Woelert, P. (2016). Research collaboration: Understanding disciplinary differences in structures and effects.

Books/Monographs:

Letina, Srebrenka. Co-authorship networks of social scientists in Croatia: Introduction to Social Network Analysis. Publisher: Hrvatska Sveučilišna Naklada (Croatian University Press): Zagreb. Funded by Croatian Ministry of Science, Education and Sports. 2017.

M. Jokić and K. Zauder, S. Letina. The features of Croatian national and international scholarly productivity in social sciences, arts and humanities 1991-2005. Publisher: The Institute for Social Research: Zagreb. 2012.

PROJECTS

Researcher, “No Sword Bites So Fiercly as an Evil Tongue? Gossip Wrecks Reputation, but Enhances Cooperation”. Principal Investigator: Károly Takács, Hungarian Academy of Sciences, Research Center for Educational and Network Studies (RECENS), funded by European Research Council Consolidator Grant.	2017 - 2020
One of collaborators on “myPersonality” project led by David Stillwell & Michal Kosinski, which combines Facebook data and psychometric measures of 7,5 mil people.	2017
Researcher, “Understanding the structures and effects of research collaboration”, at the Melbourne School of Government, University of Melbourne, funded by Incubator Research Project Grants.	2015
Researcher, “Research activity, collaboration and orientation in social sciences in Croatia and other post-socialist European countries”, at The Institute for Social Research in Zagreb, funded by Croatian Science Foundation.	2016
Researcher, “Study of the demand for the competencies, qualifications and professions in polytechnics in the years 2020 and 2025 – a qualitative study”, at the Polytechnic of Zagreb, funded by European Social Funds.	2016
Researcher, “Development of the Evaluation Model for Scientific Work in the Republic of Croatia for all scientific fields” at The Institute for Social Research in Zagreb, funded by Croatian Ministry of Science, Education and Sports.	2008- 2013
AWARDS, FELLOWSHIPS	
• Award for Advanced Doctoral Students, Central European University	2019
• “Seal of Excellence” - for the project proposal for Marie Curie Sklodowska Action – Individual Fellowship call	2017
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• Graduate House Research Acknowledgement Reward, by The Graduate Union of the University of Melbourne Inc.	2015
• Endeavour postdoctoral fellowship, Australian Government	2015
• Postgraduate Fellowship, Ministry of Education, Science and Sports of Croatia	2009
PRESENTATIONS	
Invited Presentations:	
Letina, Srebrenka. “Using comorbidity networks to understand psychopathology.” Workshop “Towards A Theory of Health Trajectories from Longitudinal Data”, Complexity Science Hub, Vienna, 2019	
Letina, Srebrenka. “Putting individuals back into the network: Some theoretical and analytical approaches on the individual-actor level attributes’ effects on network structure”. Hungarian Academy of Sciences, Computational Social Science, RECENS Research Group, Budapest, 2017	
Conference Presentations (selected):	
- Letina, S; Lengyel, B; Bíró A; Tóth G; Takács, K. Social Network and Mental Health: The Relationship Between an Online Social Ego-Network Structure and Antidepressant Use in Hungarian Small Settlements. 4th European Conference on Social Networks, Zurich, 2019.	
- Letina, S; Samu, F. Bringing the Balance Theory Back to the Individual in the Network: Proposed Measures of an Individual’s Embeddedness in Unbalanced Structures. International Sunbelt Social Network Conference, Montreal, 2019.	
- Sliskovic, T; Takacs, K; Lucic, M; Letina, S. Do Brokers Gossip Strategically? Investigating Information Sharing and Control in Organizations Using Exponential Random Graph Models. International Sunbelt Social Network Conference, Montreal, 2019.	
- Letina, S; Vedres, B; Khraisha, T. A Network Science approach to the study of relationship	

- between psychological attributes. European Personality Psychology Conference, Zadar, Croatia, 2018.
- Letina, S. Are different types of Facebook ego-nets related with differences in psychological networks? International Sunbelt Social Network Conference, Utrecht, Netherlands, 2018.
 - Letina, S; Vedres, B; Andras, K. Structures within and between individuals: psychological and social networks. International. Sunbelt Social Network Conference, Beijing, China, 2017.
 - Letina, S, Vedres, B. A review of the association among psychological attributes and network variables: a network perspective. 23rd Ramiro and Zoran Bujas Days, Zagreb, 2017.
 - Letina, S. Network and actor attribute effects on performance of researchers in two fields of social science in small peripheral community. International Sunbelt Social Network Conference, Newport Beach, California, USA, 2016. Newport Beach, California, USA, 2016.
 - Letina, S. Taking into account the individual and social context: Auto-logistic actor attribute models. "Current Trends in Psychology", Novi Sad, 2015.
 - Letina, S; Zauder. K. What are properties of measures of scientific efficiency: productivity rate and the h-index? 20th Empirical studies in psychology, Belgrade, 2014.
 - Letina, S. Network analysis of co-authorship data in social sciences. 19th Psychology days in Zadar, 2014.
 - Letina, S; Jokić, M. Co-authorship ego networks of social scientists. PubMet 2014: The Plurality of Approaches to the Scholarly Publishing and Assessment, Zadar, 2014.
 - Letina, S; Maslić Seršić, D. The Analysis of the Collaboration Network of the Educational Scientists from 1992 to 2012. The 2nd Days of Educational Sciences, The role of research in educational change, Zagreb, 2014.
 - Letina, S; Zauder, K. Stereotypes about scientists - validation of "image of scientists" scale. 21st Ramiro and Zoran Bujas's days, Zagreb, 2013.
 - Letina, S; Zauder, K; Petrović, N; Jokić, M. Network perspective of researcher's productivity. Current Trends in Psychology, Novi Sad, 2013. 73-74.
 - Letina, S; Zauder, K; Jokić, M. Impact of scientific papers of Croatian psychologists in international databases Web of Science, Scopus and PsycInfo (1991 - 2010). XVIII. Psychology days in Zadar, 2012.

TEACHING EXPERIENCE

Teaching assistant, Social Networks course (MA Computational Social Science, Linköping University).	2020
Teaching assistant, Social Networks course (PhD and MA course) at Central European University.	2018
Lecturer: Introduction to social network research (workshop for postgraduates). The Institute for Social Research in Zagreb.	2016
Guest lecturer, Introduction to scientific writings (PhD course), Faculty of Textile and Technology, University of Zagreb.	2013-2014
Guest Lecturer, Organizational Psychology: Organizational network analysis and social network analysis in psychology (graduate course), Department of Psychology, University of Zagreb.	2014

Participation in the organization of scientific events:

Workshop on Gossip, Reputation, and Honesty (as moderator) at Centre for Social Sciences	2018
Computational Social Science - Research Center for Educational and Network Studies (CSS-RECENS)	

REFEREEING

Journal of Informetrics, Journal of Personality Assessment, Scientometrics, Revija za Sociologiju, Public Sector Economics, Behaviour Research and Therapy

LANGUAGE COMPETENCIES

Human languages: English (fluent), Croatian (native)

Machine languages: R, Python, SPSS, NetLogo, Gephi, (M)PNet, UCINET/NetDraw, etc.

CONTINUED EDUCATION

Courses in PhD program in network science: Agent based modelling, Data Mining and Big analytics, Scientific Python, Statistical methods for network data, Fundamental ideas in network science, Dynamics and Structure of Complex Networks, Networks and computers, Social Networks, Data Visualizations.

The list of workshops/ summer or winter schools attended from 2014:

- Introduction to Network Regression Models using ghypernet package.
- Tidy networks: the tidyverse and tidygraph for Social Network Analysis in R.
- Psychological Networks Winter School.
- Advanced RSiena and Relational Event Models course and workshop.
- Research questions, competing explanations, and network configurations: A practical guide to theorizing about network processes.
- Algebraic analysis and visualization of multiple, signed, and two-mode networks with ‘multiplex’ and ‘multigraph’.
- Data Science Bootcamp: Machine learning in Python.
- Complex networks: theory, methods and applications II.
- Agent-based Models in Social Network Analysis Using Netlogo.
- EgoWeb 2.0: Flexible Social Network Data Collection Software.
- Multilevel Modeling for Egocentric Network Analysis.
- Social Network Approaches for Behavior Change.
- SIENA - Longitudinal analysis of social networks.
- Social network analysis: Theory, method and application: Network Fundamentals, Key concepts and descriptive SNA, Introduction to ERGM, ERGM extensions.
- Writing effective research manuscripts and writing research proposal for grants.
- The Data Scientist’s Toolbox.
- Social Network Analysis.

AFFILIATIONS:

International Network of Social Network Analysis
